(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

PCT

(10) International Publication Number WO 2005/058960 A1

(51) International Patent Classification⁷: C12N 15/67, G01N 33/50, C12N 5/10 C07K 14/80,

Biosciences UK Limited, The Maynard Centre, Forest Farm Estate, Cardiff CF14 7YT (GB).

(21) International Application Number:

PCT/GB2004/005317

(74) Agents: FRANKS, Barry et al.; Amersham plc, Amersham Place, Little Chalfont, Buckinghamshire HP7 9NA (GB).

(81) Designated States (unless otherwise indicated, for every

(22) International Filing Date:

17 December 2004 (17.12.2004)

English

(25) Filing Language: (26) Publication Language:

English

(30) Priority Data: 0329353.7

19 December 2003 (19.12.2003)

(71) Applicant (for all designated States except US): AMER-SHAM BIOSCIENCES UK LIMITED [GB/GB]; Amersham Place, Little Chalfont, Buckinghamshire HP7 9NA (GB).

(72) Inventors; and

Inventors/Applicants (for US only): STUBBS, Simon, Laurence, John [GB/GB]; Amersham Biosciences UK Limited, The Maynard Centre, Forest Farm Estate, Cardiff CF14 7YT (GB). FRANCIS, Michael, John [GB/GB]; Amersham Biosciences UK Limited, The Maynard Centre, Forest Farm Estate, Cardiff CF14 7YT (GB). CUSHING, Adrian [GB/GB]; Amersham Biosciences UK Limited, The Maynard Centre, Forest Farm Estate, Cardiff CF14 7YT (GB). ISMAIL, Rahman, Aziz [GB/GB]; Amersham

- kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CYTOCHROME C PROTEIN AND ASSAY

(57) Abstract: The present invention relates to a a cytochrome c-reporter fusion protein construct comprising a modified cytochrome c protein which targets the mitochondria and has a reduced ability to induce apoptosis in a living cell. The invention also relates to nucleic acid constructs encoding such protein fusions and cells stably transfected with such constructs. The stably transfected cells of the invention can be used in assays to detect apoptosis.



